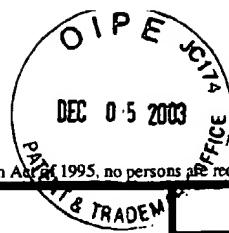


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Sheet	1	of	1	Attorney Docket Number	06171.105026 (IDX 1005 US)
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U.S. PATENT DOCUMENTS					
Examiner Initials *	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY
		Number	Kind Code (if known)		
HP	AA	5,470,838		von Borstel et al.	11-28-1995
HP	AB	5,736,531		von Borstel et al.	04-07-1998
HP	AC	5,968,914		von Borstel et al.	10-19-1999
HP	AD	6,020,322		von Borstel et al.	02-01-2000
HP	AE	6,258,795		von Borstel et al.	07-10-2001
HP	AF	6,397,222		von Borstel et al.	10-02-2001

*DUPLICATE*

FOREIGN PATENT DOCUMENTS					
Examiner Initials *	Cite No. <sup>1</sup>	Foreign Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document DD-MM-YYYY
		Office <sup>3</sup>	Number		
HP	AG	WO	89/03838	A1	PRO-NEURON, INC.
HP	AH	WO	93/01202	A1	PRO-NEURON, INC.
HP	AI	WO	94/26761	A1	PRO-NEURON, INC.

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS					
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Examiner Signature		Date Considered	9-4-04
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## SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet	1	of	9	Attorney Docket Number	06171.105026 (IDX 1005 US)
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*Complete if Known*

Application Number	09/883,033
Filing Date	June 15, 2001
First Named Inventor	Jean-Pierre Sommadossi et al.
Group Art Unit	1623
Examiner Name	Howard V. Owens, Jr.

## U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages/Relevant Figures Appear
		Number	Kind Code (if known)			
		4,916,122		Chu	04-10-1990	
		4,957,924		Beauchamp	09-18-1990	
		5,149,794		Yatvin et al	09-22-1992	
		5,190,926		Chu	03-02-1993	33
		5,194,654		Hostetler et al.	03-16-1993	0
		5,223,263		Hostetler et al.	06-29-1993	11
		5,256,641		Yatvin et al	10-01-2693	33
		5,411,947		Hostetler et al.	05-02-1995	
		5,463,092		Hostetler et al.	10-31-1995	
		5,539,116		Liotta	07-23-1996	1,2
		5,543,389		Yatvin et al	08-06-1996	0
		5,543,390		Yatvin et al	08-06-1996	
		5,543,391		Yatvin et al	08-06-1996	
		5,554,728		Basava et al.	09-10-1996	
		5,559,101		Weis et al.	09-24-1996	
		5,565,438		Chu	10-15-1996	
		5,567,688		Chu	10-22-1996	
		5,587,362		Chu	12-24-1996	
		5,939,402		Weis et al.	08-17-1999	
		6,025,335		Weis et al.	02-15-2000	
		6,194,391		Schinazi et al.	02-27-2001	
		6,245,749		Schinazi et al.	06-12-2001	
✓ H.O.		6,297,222	B1	von Borstel et al.	10-02-2001	

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## SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 2 of 9

		Complete if Known	
Application Number		09/883,033	
Filing Date		June 15, 2001	
First Named Inventor		Jean-Pierre Sommadossi et al.	
Group Art Unit		1623	
Examiner Name		Howard V. Owens, Jr.	
Attorney Docket Number		06171.105026 (IDX 1005 US)	

### FOREIGN PATENT DOCUMENTS

Examiner Initials *	Cite No. <sup>1</sup>	Foreign Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document DD-MM-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T*
		WO	89/02733	University of California	04-06-1989		
		WO	89/03838	A1	Pro-neuron, Inc.	05-05-1989	
		WO	90/00555	Vical, Inc.	01-25-1990		
		WO	91/16920	Vical, Inc.	11-14-1991		
		WO	91/18914	Vical, Inc.	12-12-1991		
		WO	91/19721	Glazier	12-26-1991		
		WO	92/01138	Yatvin	01-20-1994		
		WO	92/08727				
		WO	92/15308	Wellcome	09-17-1992		
		WO	92/18517	Yale et al.	10-29-1992		
		WO	93/00910	Vical, Inc.	01-21-1993		
		WO	94/20523	Burroughs Wellcome	09-15-1994		
		WO	94/26273	Hostettler	11-24-1994		
		WO	94/29331	Sloan-Kettering Inst. for Cancer Research	12-22-1994		
		WO	95/07086				
		WO	96/11204	Matthes & Von Jenta-Lipinski	04-18-1996		
		WO	96/13512	Genencor	05-09-1996		
		WO	96/15132	University of California	05-23-1996		
		WO	96/40164	Emory University	12-19-1996		
		WO	98/15563	Pankiewicz, K.W. et al	10-09-1997		
		EP	0 355 131	B1	Pro-neuron, Inc.	09-04-1996	
		EP	0 352 248		Medivir Aktiebolag	01-24-1990	
		EP	0 350 287		Vical, Inc.	02-10-1990	

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Sheet 3 of 9

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Application Number	09/883,033
Filing Date	June 15, 2001
First Named Inventor	Jean-Pierre Sommadossi et al.
Group Art Unit	1623
Examiner Name	Howard V. Owens, Jr.
Attorney Docket Number	06171.105026 (IDX 1005 US)

## FOREIGN PATENT DOCUMENTS

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		Office <sup>2</sup>	Number	Kind Code <sup>3</sup> (if known)				
XO		EP	0 494 119		BioChem Pharma	07-08-1992		
		JP	06-293645		Saneyoshi et al.	10-21-1994		

## OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T*
XO		ARNER and ERIKSSON, "Mammalian Deoxyribonucleoside Kinases," <i>Pharm Ther.</i> , 1995, 67(2), 155-186.	
		BERK et al., "A Genetically Distinct Tymidine Kinase in Mammalian Mitochondria," <i>J Biol Chem.</i> 1973, 248, 2722-2729.	
		BESTWICK et al., "Selective Expansion of Mitochondrial Nucleoside Triphosphate Pools in Antimetabolite-treated HeLa Cells," <i>J Biol Chem.</i> 1982, 257, 9300-9304.	
		BLOCH, et al. "The Role Of The 5'-Hydroxyl Group Of Adenosine In Determining Substrate Specificity For Adenosine Deaminase." <i>J. Med. Chem.</i> 10(5), 908-12 (September 1967).	
		BRIDGES et al., "Characterization of a dCTP Transport Activity Reconstituted from Human Mitochondria," <i>J. Biol. Chem.</i> February 19, 1999, 274(8), 4620-4625.	
		BRIDGES et al., "Identification of a novel mitochondrial dNTP carrier and its interaction with anti-HIV nucleoside analogs," <i>Proc. Am. Assoc. Cancer Res.</i> , March 1997, 38, 414.	
		BRIDGES et al., "Inhibition of Mammalian DNA Polymerase-Associated 3' to 5' Exonuclease Activity by 5'-Monophosphates of 3'-Azido-3'-Deoxythymine and 3'-Amino-3'-Deoxythymidine," <i>Biochemical Pharmacology</i> , 1993, 45(8), 1571-1576.	
		BRYANT et al., "Antiviral L-Nucleosides Specific for Hepatitis B Virus Infection," <i>Antimicrobial Agents and Chemotherapy</i> , 45(1), 229-235 (January 2001).	
XO		CHANG et al., "Biochemical Pharmacology of (+)- and (-)-2',3'-Dideoxy-3'-thiacytidine as Anti-hepatitis B Virus Agents," <i>J Biol Chem.</i> November 5, 1992, 267(31), 22414-22420.	

Examiner Signature	<i>Howard V. Owens</i>	Date Considered	9-4-04
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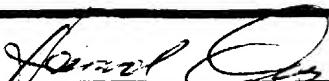
of

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Complete if Known	
Application Number	09/883,033
Filing Date	June 15, 2001
First Named Inventor	Jean-Pierre Sommadossi <i>et al.</i>
Group Art Unit	1623
Examiner Name	Howard V. Owens, Jr.
Attorney Docket Number	06171.105026 (IDX 1005 US)

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HZ		CHANG, et al., "Deoxycytidine Deaminase-resistant Stereoisomer is the Active Form of (-)-2',3'-thiacytidine in the Inhibition of Hepatitis B Virus Replication," <i>Journal of Biological Chemistry</i> , Volume 267(20), 13938-13942 (July 15, 1992).	
		CHARIOT et al., "Zidovudine-induced mitochondrial disorder with massive liver steatosis myopathy, lactic acidosis, and mitochondrial DNA depletion," <i>J. Hepatology</i> , 1999, 30, 156-160.	
		CHEN et al., "Characterization of Pyrimidine Deoxyribonucleoside Kinase (Thymidine Kinase) and Thymidylate Kinase as a Multifunctional Enzyme in Cells Transformed by Herpes Simplex Virus Type 1 and in Cells Infected with Mutant Strains of Herpes Simplex Virus," <i>J Virol</i> , June 1979, 30, 942-945.	
		CHEN et al., "Delayed Cytotoxicity and Selective Loss of Mitochondrial DNA in Cells Treated with the Anti-human Immunodeficiency Virus Compound 2',3'-Dideoxyctidine," <i>J Biol Chem</i> , 1989, 264, 11934-11937.	
		CHEN et al., "The Role of Cytoplasmic Deoxycytidine Kinase in the Mitochondrial Effects of the Anti-human Immunodeficiency Virus Compound 2',3'-Dideoxyctidine," <i>J Biol Chem</i> , February 15, 1992, 267(5), 2856-2859.	
		CUI et al., "Effect of Nucleoside Analogs on Neurite Regeneration and Mitochondrial DNA Synthesis in PC-12 Cells," <i>J. of Pharmacology and Experimental Therapeutics</i> , 1997, 280(3), 1228-1234.	
		DAVIS et al., "In Situ Localization of Mitochondrial DNA Replication in Intact Mammalian Cells," <i>J Cell Biol</i> , 1996, 135, 883-893.	
		DAVISSON, et al., "Synthesis of Nucleotide 5'-Diphosphates from 5'-O-Tosyl Nucleosides," <i>J. Org. Chem.</i> , 52(9), 1794-1801 (1987)	
		DOONG et al., "Inhibition of the replication of hepatitis B virus in vitro by 2',3'-dideoxy-3'-thiacytidine and related analogues," <i>Proc. Natl. Acad. Sci.</i> , October 1991, 88, 8495-8499.	
HJ		DU et al., Synthesis, "Anti-Human Immunodeficiency Virus and Anti-Hepatitis B Virus Activities of Novel Oxaselenolane Nucleosides," <i>J. of Med. Chem.</i> , (40)19, 2991-2993 (September 12, 1997).	

Examiner Signature		Date Considered	9-4-01
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## SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet

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of

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## Complete if Known

Application Number	09/883,033
Filing Date	June 15, 2001
First Named Inventor	Jean-Pierre Sommadossi et al.
Group Art Unit	1623
Examiner Name	Howard V. Owens, Jr.
Attorney Docket Number	06171.105026 (IDX 1005 US)

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XO	DUTSCHMAN et al., "Metabolism of 2',3'-dideoxy-2',3'-didehydro-β-L-(+)-5-Fluorocytidine and Its Activity in Combination with Clinically Approved Anti-Humna Immunodeficiency Virus β-D-(+) Nucleoside Analogs In Vitro," <i>Antimicrobial Agents and Chemotherapy</i> , July 1998, 42(7), 1799-1804.		
	FURMAN, et al., "The Anti-Hepatitis B Virus Activities, Cytotoxicities, and Anabolic Profiles of the (-) and (+) Enantiomers of cis-5-Fluoro-1-[2-(Hydroxymethyl)-1,3-oxathiolane-5-yl]-Cytosine" <i>Antimicrobial Agents and Chemootherapy</i> , 36(12) 2686-2692 (December 1992).		
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	HOSTETLER, K.Y., et al. "Synthesis And Antiretroviral Activity Of Phospholipid Analogs Of Azidothymidine And Other Antiviral Nucleosides." (April 15, 1990) <i>J. Biol Chem.</i> 265(11):6112-7.		
	IMAI et al., "Studies on Phosphorylation. IV. Selective Phosphorylation of the Primary Hydroxyl Group in Nucleosides." <i>J. Org. Chem.</i> , 34(6), 1547-1550 (June 1969).		
XO	JONES, R. et al., "Mini Review: Nucleotide prodrugs," <i>Antiviral Research</i> , 27, 1-17 (1995).		

Examiner Signature

Date Considered

9-4-04

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Substitute for form 1449A/PTO				Complete if Known	
<b>SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>				Application Number	09/883,033
(use as many sheets as necessary)				Filing Date	June 15, 2001
				First Named Inventor	Jean-Pierre Sommadossi et al.
				Group Art Unit	1623
				Examiner Name	Howard V. Owens, Jr.
Sheet	6	of	9	Attorney Docket Number	06171.105026 (IDX 1005 US)

#### OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

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HO		JUROVČIK and HOLY "Metabolism of pyrimidine L-nucleosides," <i>Nucleic Acids Research</i> , August 1976, 3(8), 2143-2153.	
HO		KORBA et al., "A cell culture assay for compounds which inhibit hepatitis B virus replication," <i>Antiviral Res.</i> , 15:217 (1991).	
HO		KRAYEVSKY and CHERNOV, "Can a Substrate Enantiomer Be a Substrate for the Same Enzyme?", <i>Molecular Biology</i> , 1996, 30(5), 585-591. <i>NOT SUBMITTED</i>	
HO		KRAYEVSKY and CHERNOV, "Should the Asymmetric of Enzymatic Active Centers Always Correlate with the Asymmetry of their Substrates?", <i>J. of Biomolecular Structure &amp; Dynamics</i> , 1996, 14(2), 225-230.	
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Examiner Signature		Date Considered	9-4-04
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				Application Number	09/883,033
				Filing Date	June 15, 2001
				First Named Inventor	Jean-Pierre Sommadossi <i>et al.</i>
				Group Art Unit	1623
				Examiner Name	Howard V. Owens, Jr.
				Attorney Docket Number	06171.105026 (IDX 1005 US)
Sheet	7	of	9		

**OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS**

Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>4</sup>
		NORBECK, <i>Tetrahedron Letters</i> , 30 (46), 6246 (1989). <i>NOT SUBMITTED</i>	
HJ		PANKIEWICZ, et al. "Efficient synthesis of methylenebis(phosphonate) analogues of P1,P2-disubstituted phyrophosphates of biological interest. (1997-04-15), 119, 3691-3692.	
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Sheet 8 of 9

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Application Number	09/883,033
Filing Date	June 15, 2001
First Named Inventor	Jean-Pierre Sommadossi <i>et al.</i>
Group Art Unit	1623
Examiner Name	Howard V. Owens, Jr.
Attorney Docket Number	06171.105026 (IDX 1005 US)

**OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS**

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HQ		SHUTO, S., et al. "A facile one-step synthesis of 5'-phosphatidyl nucleosides by an enzymatic two-phase reaction." <i>Tetrahedron Letters</i> . 28, 199-202 (1987).	
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HQ		TYRSTED et al. "Inhibition of the synthesis of 5-phosphoribosyl-1-pyrophosphate by 3'-deoxy-adenosine and structurally related nucleoside analogs." <i>Biochim. Biophys. Acta</i> . (February 26, 1968), 155(2), 619-22.	
HQ		VERRI et al. "Lack of enantiospecificity of human 2'-deoxycytidine kinase: relevance for the activation of beta-L-deoxycytidine analogs as antineoplastic and antiviral agents." <i>Molecular Pharmacology</i> . (January 1997), 51(1), 132-138.	
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Examiner Signature	<i>Howard V. Owens</i>	Date Considered	9-4-04
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Sheet	9	of	9	Attorney Docket Number	06171.105026 (IDX 1005 US)
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Ho		ZHU et al., "Anti-Hepatitis B Virus Activity and Metabolism of 2',3'-dideoxy-2',3'-didehydro-β-L-(-)-5-Fluorocytidine," <i>Antimicrobial Agents and Chemotherapy</i> , July 1998, 42(7), 1805-1810.	
Ho		ZHU et al., "Incorporation of Nucleoside Analogs into Nuclear or Mitochondrial DNA Is Determined by the Intracellular Phosphorylation Site," <i>J Biol Chem</i> , 2000, 275(35), 26727-26731.	
		ZHU et al., "Inhibition of Replication of Hepatitis B Virus by Cytallene In Vitro," <i>Antimicrobial Agents and Chemotherapy</i> , August 1997, 41(8), 1755-1760.	NOT SUBMITTED

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9-14-04

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